

apicem obtusis saepe recurvatis; pedunculis numerosis tricostratis gracillimis paulo tortis glabris stramineis; vaginis arcte adpressis dense incanis, pilis arctissime adpressis inflatis minutis bulboideis; capitulis hemisphaericis albidis vel niveis, parvis 2--4 mm. latis.

Very dwarf acaulescent herb; leaves rosulate, numerous, linear, recurved, 3--15 mm. long, 0.5--1 mm. wide, rather densely spreading-pubescent with short white hairs, less so in age, blunt and often subuncinately recurved at the apex; peduncles several to 8 per plant, 2--5 cm. long, 3-costate, very slender, slightly twisted, glabrous, stramineous; sheaths 5--10 mm. long, closely appressed, densely incanous with very closely appressed inflated minute bulb-like hairs which are usually without any capillary appendage, but sometimes appendaged ones are interspersed, obliquely split at the apex; heads hemispheric, white or whitish, 2--4 mm. in diameter; involucre bractlets oblanceolate, white or stramineous, about 1.5 mm. long and 0.8 mm. wide, rounded in outline but irregularly erose-laciniate at the apex, glabrous and shiny on both surfaces; receptacle densely long-pilose with white hairs; staminate florets: borne on a capillary stalk about 0.6 mm. long; sepals 3, hyaline, separate, elliptic, about 0.7 mm. long and 0.3 mm. wide, glabrous, not glanduliferous; petals 3, hyaline, apparently separate (?), of the same size, shape, and texture as the sepals, glabrous and not glanduliferous; pistillate florets: sepals 3, separate, hyaline, oblong, about 1.9 mm. long and 0.8 mm. wide, acute at the apex, glabrous; petals 3, linear, hyaline, connate at the middle, but easily separating in age, about 1.1 mm. long and 0.2 mm. wide, long-pilose near the middle on the inner surface with hyaline hairs reaching about to the apex, not glanduliferous; style subobsolete or to 0.1 mm. long, glabrous, its appendages 3, about 0.4 mm. long; stigmas 3, about 0.2 mm. long; ovary 3-celled.

The type was collected by Francisco Tamayo (no. 3234) in sandy soil on Cerro Akurimá, Bolívar, Venezuela, in March of 1946, and is deposited in the United States National Herbarium at Washington. The collector says that the plants grow from 5 to 8 cm. tall. The remarkable hairs of the sheaths are most characteristic.

THE KNOWN GEOGRAPHIC DISTRIBUTION OF THE MEMBERS OF THE
ERIOCAULACEAE. SUPPLEMENT 2

Harold N. Moldenke

The following records are a continuation of the series

begun by me in *Phytologia* 2: 349--352 (1947).

UNITED STATES OF AMERICA:

New York:

Eriocaulon septangulare With. (Cayuga County)

Delaware:

Eriocaulon compressum Lam. (Sussex County)

Eriocaulon septangulare With. (New Castle County)

North Carolina:

Lachnocaulon anceps (Walt.) Morong (Pender County)

Lachnocaulon minus (Chapm.) Small (Bladen County)

Michigan:

Eriocaulon septangulare With. (Baraga County)

Texas:

Eriocaulon texense Körn. (Jefferson County)

California:

Eriocaulon cinereum R. Br. (Stanislaus County)

COLOMBIA:

Paepalanthus ensifolius (H.B.K.) Kunth (Santander Norte)

VENEZUELA:

Paepalanthus Tatei Moldenke (Lar^a)

Paepalanthus truxillensis Körn. (Lar^a)

Paepalanthus Williamsii Moldenke (Amazonas)*

Syngonanthus akurimensis Moldenke (Bolⁱvar)*

SURINAM:

Paepalanthus Maguirei Moldenke

Paepalanthus polytrichoides Kunth

Paepalanthus tafelbergensis Moldenke*

Syngonanthus eriophyllus var. glandulosus Ruhl. -- delete
the " " "

Syngonanthus gracilis (Körn.) Ruhl.

Syngonanthus surinamensis Moldenke*

FRENCH GUIANA:

Eriocaulon guianense Körn. -- delete the " " "

Syngonanthus caulescens (Poir.) Ruhl.

ECUADOR:

Paepalanthus andicola Körn. (Loja)

Paepalanthus ensifolius (H.B.K.) Kunth (Azuay, Carchi, &
Loja)

Paepalanthus Espinosianus Moldenke (Santiago-Zamora)*

Paepalanthus Karstenii Ruhl. (Loja)

Paepalanthus loxensis Moldenke (Loja)*

Syngonanthus macrocaulon Ruhl.

PERU:

Paepalanthus pilosus (H.B.K.) Kunth (Cuzco)

Syngonanthus caulescens (Poir.) Ruhl. (San Martⁱn)

BRAZIL:

Eriocaulon Beauverdi Moldenke (S^ao Paulo)*

Eriocaulon cipoense Alv. Silv. (Minas Geraes)*

- Eriocaulon crassiscapum Bong. (Rio de Janeiro & Rio Grande do Sul) -- delete the "*"

Eriocaulon dictyophyllum Körn. (Paraná)

Eriocaulon gibbosum Körn. (Goyaz & Rio de Janeiro)

Eriocaulon giganteum (Beauverd) Beauverd -- to be deleted

Eriocaulon heteropeplon Alv. Silv. (Minas Geraes)*

Eriocaulon Humboldtii Kunth (Amazonas)

Eriocaulon leptophyllum Kunth -- delete the "*"

Eriocaulon longepedunculatum Alv. Silv. -- to be deleted

Eriocaulon melanocephalum Kunth (Amazonas)

Eriocaulon modestum Kunth -- delete the "*"

Eriocaulon paludicola Alv. Silv. is the correct form for this name

Eriocaulon Silveirae Moldenke (Minas Geraes)*

Leiothrix cuscutoides Alv. Silv. (Minas Geraes)*

Leiothrix Edwallii Alv. Silv. (São Paulo)*

Leiothrix hirsuta var. Magalhãesii Alv. Silv. (Minas Geraes)*

Leiothrix obtusifolia Alv. Silv. (Minas Geraes)*

Leiothrix sclerophylla Alv. Silv. (Minas Geraes)*

Paepalanthus Dusenii Ruhl. (São Paulo)

Paepalanthus fasciculatus (Rottb.) Körn. (Pará)

Paepalanthus myocephalus (Mart.) Körn. (Pernambuco)

Paepalanthus neopulvinatus Moldenke (Minas Geraes)*

Paepalanthus paucifolius Alv. Silv. (Minas Geraes)*

Paepalanthus pulvinatus Alv. Silv. -- to be deleted

Paepalanthus Warmingianus Körn. (Minas Geraes)

Syngonanthus anthemiflorus (Bong.) Ruhl. -- delete the "*"

Syngonanthus caulescens (Poir.) Ruhl. (Paraná, Pernambuco, & Rio Grande do Sul)

Syngonanthus centauroides var. subappressus Ruhl. (Rio Grande do Sul)

Syngonanthus Fischerianus (Bong.) Ruhl. (Amazonas & Pará)

Syngonanthus gracilis var. glabriusculus Ruhl. -- delete the "*"

Syngonanthus gracilis var. hirtellus (Steud.) Ruhl. -- delete the "*"

Syngonanthus heteropeploides Herzog -- delete the "*"

Syngonanthus rufo-albus Alv. Silv. (Minas Geraes)*

Syngonanthus Widgrenianus (Körn.) Ruhl. (São Paulo)

BOLIVIA:

- Eriocaulon Steinbachii (Moldenke) Moldenke (Santa Cruz)*

Leiothrix flavescens (Bong.) Ruhl. (El Beni)

Paepalanthus muscosus Körn. (La Paz)

Paepalanthus speciosus (Bong.) Ruhl. (Santa Cruz)

Syngonanthus caulescens (Poir.) Ruhl. (Santa Cruz)

Syngonanthus Fischerianus (Bong.) Ruhl. (Santa Cruz)

PARAGUAY:

- Eriocaulon magnum Abbiatti

URUGUAY:

Eriocaulon Arechavaletae Herter is the correct form for this name

Eriocaulon modestum Kunth

ARGENTINA:

Eriocaulon Arechavaletae Moldenke -- to be deleted

Eriocaulon crassiscapum Bong. (Misiones)

Eriocaulon leptophyllum Kunth (Corrientes)

Eriocaulon magnum Abbiatti (Chaco)

Eriocaulon missionum Castell. (Misiones)*

Eriocaulon Sellowianum Kunth (Corrientes)

Eriocaulon sp. indet. -- to be deleted

Syngonanthus anthemiflorus (Bong.) Ruhl. (Misiones)

Syngonanthus caulescens (Poir.) Ruhl. (Misiones)

UNION OF SOCIALIST SOVIET REPUBLICS:

Eriocaulon Euergerianum Körn. (Buryato-Mongolskaya)

Eriocaulon chinorossicum Lom (Far Eastern Territory)*

Eriocaulon nipponicum Maxim. (Buryato-Mongolskaya)

Eriocaulon robustius (Maxim.) Mak. (Far Eastern Territory)*

ABYSSINIA:

Eriocaulon Schimperii Körn. -- delete the " "*

SIERRA LEONE:

Paepalanthus Lamarckii Kunth

FRENCH WEST AFRICA:

Eriocaulon bifistulosum Van Heurck & Muell.-Arg. (French Soudan)

FRENCH EQUATORIAL AFRICA:

Paepalanthus Lamarckii Kunth (Gabun)

BELGIAN CONGO:

Eriocaulon Schimperii Körn.

RUANDA & URUNDI:

Eriocaulon Schimperii Körn.

UGANDA:

Eriocaulon Volkensii Engl.

TANGANYIKA TERRITORY:

Eriocaulon mesanthemoides Ruhl. -- delete the " "*

Eriocaulon Schimperii Körn.

Eriocaulon Volkensii Engl. -- delete the " "*

MAFIA ISLAND:

Paepalanthus Lamarckii Kunth

KENYA:

Eriocaulon Schimperii var. gigas Moldenke*

BRITISH NYASALAND PROTECTORATE:

Eriocaulon mesanthemoides Ruhl.

Eriocaulon Schimperii Körn.

INDIA:

Eriocaulon Dalzellii Körn. (Bengal) -- delete the " "*

Eriocaulon Dianae Fyson -- delete the " "*

Eriocaulon luzulaefolium Mart. (Madras)

Eriocaulon Vanheurckii Muell.-Arg. -- delete the "*"

SALSETTE ISLAND:

Eriocaulon Dianas Fyson

Eriocaulon Vanheurckii Muell.-Arg.

BURMA:

Eriocaulon cinereum R. Br.

CEYLON:

Eriocaulon Dalzellii Körn.

CHINA:

Eriocaulon alpestre Hook. f. & Thoms. (Fukien)

Eriocaulon Euergerianum Körn. (Kwangtung & Yünnan)

Eriocaulon cristatum Mart.

Eriocaulon Rockii Moldenke (Yünnan)*

Eriocaulon truncatum Hamilt. (Kiangsi & Kweichow)

Eriocaulon yunnanense Moldenke (Yünnan)*

JAPAN:

Eriocaulon atrum Nakai (Honshiu)

Eriocaulon cinereum R. Br. (Musashi)

Eriocaulon nipponicum Maxim. (Honshiu)

Eriocaulon robustius (Maxim.) Mak. is the correct form for
this name

Eriocaulon sikokianum Maxim. (Hilachi & Kiushiu)

HAINAN ISLAND:

Eriocaulon Buergerianum Körn.

FRENCH INDO-CHINA:

Eriocaulon Robinsoni Moldenke (Annam)*

Eriocaulon truncatum Hamilt. (Annam)

THAILAND:

Eriocaulon glabriflorum Ridl.

Eriocaulon ubonense H. Lecomte

TERUTAU ISLAND:

Eriocaulon glabriflorum Ridl.

FEDERATED MALAY STATES:

Eriocaulon glabriflorum Ridl. -- delete the "*"

STRAITS SETTLEMENTS:

Eriocaulon cristatum Mart. (Malacca)

Eriocaulon glabriflorum Ridl. (Langkawi Islands)

LIUKIU ISLANDS:

Eriocaulon australe R. Br. (Iriomote Island)

BISMARCK ARCHIPELAGO:

Eriocaulon brachypeplon Körn. (New Ireland)*

AUSTRALIA:

Eriocaulon graphitinum F. Muell. & Tate (South Australia)*; this is the correct form for this name

Eriocaulon spectabile F. Muell. (Northern Territory & Queensland)*

Eriocaulon Tatei Ruhl. (Northern Territory)*

Eriocaulon tortuosum F. Muell. (Northern Territory)*

FOSSILIZED:

Eriocaulon porosum Lesq. (Eocene of Colorado)*

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Addenda and errata to the alphabetic list of scientific names proposed in the Eriocaulaceae, including mis-spellings and mis-accreditations

Carptotepala MoldenkeCarptotepala insolita MoldenkeDupatya caulescens (Poir.) Kuntze = Syngonanthus caulescens (Poir.) Ruhl.Dupatya elegans (Bong.) Kuntze = Syngonanthus elegans (Bong.) Ruhl.Dupotya Kuntze = Paepalanthus Mart.Dupotya flavidula (Michx.) Kuntze = Syngonanthus flavidulus (Michx.) Ruhl.Eriaucolon L. = Eriocaulon L.Eriaucolon elongatum Bong. = Paepalanthus elongatus (Bong.) Körn.Eriaucolon gnaphalodes Michx. = Eriocaulon compressum Lam.Eriocaulon alatum H. LecomteEriocaulon alpestre var. perpusillum NakaiEriocaulon alpestre var. robustius Maxim. = Eriocaulon robustius (Maxim.) Mak.Eriocaulon annamense H. LecomteEriocaulon Arechavaletae Castell. = Eriocaulon magnum AbbiattiEriocaulon Arechavaletae HerterEriocaulon Arechavaletae Moldenke = Eriocaulon Arechavaletae HerterEriocaulon argenteum Heyne = Eriocaulon quinquangulare L.Eriocaulon argentinum Castell. = Eriocaulon leptophyllum KunthEriocaulon articulatum (Huds.) Morong = Eriocaulon septangulare With.Eriocaulon articulatum var. submersum Haberer = Eriocaulon septangulare With.Eriocaulon atratum Thwaites = Eriocaulon subglaucum Ruhl. [not E. subcaulescens Hook. f.]Eriocaulon atrum NakaiEriocaulon barba-caprae FysonEriocaulon Beauverdi MoldenkeEriocaulon Boni H. LecomteEriocaulon brevipedunculatum Merr.Eriocaulon brizoides (Kunth) Steud. = Syngonanthus gracilis var. Koernickeanus Ruhl.Eriocaulon bromelloideum H. LecomteEriocaulon Brownianum var. nilagirensis Fyson = Eriocaulon nilagirensis Steud.

- Eriocaulon capitulatum Moldenke
Eriocaulon caricifolium Gardn. = Syngonanthus laricifolius
 (Gardn.) Ruhl.
Eriocaulon caulescens Kunth = Syngonanthus caulescens
 (Poir.) Ruhl.
Eriocaulon cauliferum Mak.
Eriocaulon chinorossicum Lom
Eriocaulon Christopheri Fyson
Eriocaulon cipoense Alv. Silv.
Eriocaulon Comptonii Rendle
Eriocaulon congensense Moldenke = Eriocaulon Schimperii Körn.
Eriocaulon conicum (Fyson) C. E. C. Fischer
Eriocaulon coreanum H. Lecomte
Eriocaulon cristatum Heyne = Eriocaulon cristatum Mart.
Eriocaulon Cuatrecasasi Moldenke = Dichromena monostachya
 (Böckl.) C. B. Clarke, Cyperaceae
Eriocaulon cubralense Alv. Silv. = Eriocaulon cabralense
 Alv. Silv.
Eriocaulon decemangulare L. = Eriocaulon decangulare L.
Eriocaulon dimorphopetalum Moldenke
Eriocaulon evoideum Britton & Small = Eriocaulon ovoideum
 Britton & Small
Eriocaulon falcatum Bong.
Eriocaulon gibbosum var. brevifolium Körn. = Eriocaulon
gibbosum Körn.
Eriocaulon gibbosum var. longifolium Körn. = Eriocaulon
gibbosum Körn.
Eriocaulon gnaphaloides Michx. = Eriocaulon compressum Lam.
Eriocaulon gnapholoides Michx. = Eriocaulon compressum Lam.
Eriocaulon graphiticum Tate = Eriocaulon graphitinum F.
 Muell. & Tate
Eriocaulon graphitinum F. Muell. & Tate
Eriocaulon heterodoxum Moldenke
Eriocaulon heteropeplon Alv. Silv.
Eriocaulon hexangulare L. = Eriocaulon sexangulare L.
Eriocaulon leptodictyon A. Gray = Eupatorium leptodictyon
 A. Gray, Carduaceae
Eriocaulon ligulatum Bon. = Paepalanthus lingulatus (Bong.)
 Kunth
Eriocaulon ligulatus Bong. = Paepalanthus lingulatus
 (Bong.) Kunth
Eriocaulon lingulatus Bong. = Paepalanthus lingulatus
 (Bong.) Kunth
Eriocaulon missionum Castell.
Eriocaulon palludicola Alv. Silv. = Eriocaulon paludicola
 Alv. Silv.
Eriocaulon paradoxum Moldenke
Eriocaulon quadriangulare Lour. = Eriocaulon sexangulare L.
Eriocaulon quinquangulare Heyne = Eriocaulon cristatum Mart.

- Eriocaulon Robinsonii Moldenke
Eriocaulon robustium (Maxim.) Mak. = Eriocaulon robustius (Maxim.) Mak.
Eriocaulon robustius (Maxim.) Mak.
Eriocaulon robustum var. caulescens Fyson = Eriocaulon atratum var. major Thwaites
Eriocaulon Rockii Moldenke
Eriocaulon Schimperi var. gigas Moldenke
Eriocaulon septangulare Kunth = Eriocaulon septangulare With.
Eriocaulon septentrionalis (Huds.) Morong = Eriocaulon septangulare With.
Eriocaulon serotinum Walt. = Eriocaulon decangulare L.
Eriocaulon setaceum Hook. f. = Eriocaulon intermedium Körn.
Eriocaulon sexangulare Fyson = Eriocaulon longifolium Nees
Eriocaulon Sieboldianum Steud. = Eriocaulon cinereum R. Br.
Eriocaulon Steinbachii (Moldenke) Moldenke
Eriocaulon Steyermarkii Moldenke
Eriocaulon subcaulescens Hook. f. = Eriocaulon subcaulescens Hook. f.
Eriocaulon Volkensii var. Mildbraedii Ruhl.
Eriocaulon Wightianum Hook. f. = Eriocaulon robusto-Brownianum Ruhl. & E. Brownianum Mart.
Eriocaulon yunnanense Moldenke
Eriocaulon zeylanicum Körn. = Eriocaulon ceylanicum Körn.
Eriocaulon zeylanicum var. subcaulescens Fyson = Eriocaulon subglaucum Ruhl.
Eriocaulon 7-angulare With. = Eriocaulon septangulare With.
Hyphdra amplexicaulis Vahl = Tonina fluviatilis Aubl.
Lachnanthes Michauxii Kunth = Lachnocaulon anceps (Walt.) Morong
Leiotherix cuscutoides Alv. Silv.
Leiotherix Edwallii Alv. Silv.
Leiotherix hirsuta var. Magalhãesii Alv. Silv.
Leiotherix obtusifolia Alv. Silv.
Leiotherix sclerophylla Alv. Silv.
Leiotherix Steyermarkii Moldenke
Leiotherix umbratilis Moldenke
Paepalanthus aereus Alv. Silv. = Paepalanthus aereus Alv. Silv.
Paepalanthus aereus Alv. Silv.
Paepalanthus angustus Alv. Silv. = Paepalanthus augustus Alv. Silv.
Paepalanthus anreus Alv. Silv. = Paepalanthus aureus Alv. Silv.
Paepalanthus arborecens Alv. Silv. = Paepalanthus arborescens Alv. Silv.
Paepalanthus bifidus Kunth = Paepalanthus bifidus (Schrad.) Kunth
Paepalanthus brunneus Moldenke

- Paepalanthus caulescens (Poir.) Kunth = Syngonanthus caulescens (Poir.) Ruhl.
Paepalanthus desinfolius Alv. Silv. = Paepalanthus densifolius Alv. Silv.
Paepalanthus diversifolius Alv. Silv. = Paepalanthus diversifolius Alv. Silv.
Paepalanthus elegans (Bong.) Kunth = Syngonanthus elegans (Körn.) Ruhl.
Paepalanthus elegans Mart. = Syngonanthus elegans (Körn.) Ruhl.
Paepalanthus Espinosianus Moldenke
Paepalanthus filipes Moldenke
Paepalanthus glaucopodus Alv. Silv. = Paepalanthus glaucopodus Alv. Silv.
Paepalanthus griseus Moldenke
Paepalanthus Gustarvii Alv. Silv. = Paepalanthus Gustavii Alv. Silv.
Paepalanthus jordadensis Alv. Silv. = Paepalanthus jordanensis Alv. Silv.
Paepalanthus loxensis Moldenke
Paepalanthus Maguirei Moldenke
Paepalanthus myocephalus Mart. = Paepalanthus myocephalus (Mart.) Körn.
Paepalanthus myriocephalus Mart. = Paepalanthus myocephalus (Mart.) Körn.
Paepalanthus myriophyllus Alv. Silv. = Paepalanthus myriophyllus Alv. Silv.
Paepalanthus oereus Alv. Silv. = Paepalanthus aereus Alv. Silv.
Paepalanthus orthogonolis Alv. Silv. = Paepalanthus orthogonalis Alv. Silv.
Paepalanthus paucifolius Alv. Silv.
Paepalanthus pauper Moldenke
Paepalanthus perplexans Moldenke
Paepalanthus pisrophorus Alv. Silv. = Paepalanthus spirorphorus Alv. Silv.
Paepalanthus polyclados Alv. Silv. = Paepalanthus polyclados Alv. Silv.
Paepalanthus ramosissimos Alv. Silv. = Paepalanthus ramosissimus Alv. Silv.
Paepalanthus rhyzocephalus Alv. Silv. = Paepalanthus rhizocephalus Alv. Silv.
Paepalanthus robustus Alv. Silv. = Paepalanthus robustus Alv. Silv.
Paepalanthus roraimensis Moldenke
Paepalanthus scopulorum Moldenke
Paepalanthus serralapensis Moldenke
Paepalanthus squamuliferus Moldenke
Paepalanthus Steinbachii Moldenke = Eriocaulon Steinbachii

(Moldenke) Moldenke

- Paepalanthus Steyermarkii Moldenke
Paepalanthus subsessilis Moldenke
Paepalanthus syngonan-thoides Alv. Silv. = Paepalanthus syngonanthoides Alv. Silv.
Paepalanthus tafelbergensis Moldenke
Paepalanthus tenuiculis Alv. Silv. = Paepalanthus tenuicaulis Alv. Silv.
Paepalanthus tortilis Mart. = Paepalanthus tortilis (Bong.) Mart.
Paepalanthus umbillatus Kunth = Syngonanthus umbellatus (Lam.) Ruhl.
Paepalanthus vehetinus Alv. Silv. = Paepalanthus velutinus Alv. Silv.
Paepalanthus viridifolius Alv. Silv. = Paepalanthus rigidifolius Alv. Silv.
Paepalanthus Warmingii Körn. = Paepalanthus Warmingianus Körn.
Paepalanthus Williamsii Moldenke
Paepalanthus sp. Niederlein = Eriocaulon argentinum Castell.
Rhondonanthus Herzog = Rhondonanthus Herzog
Rondonanthus micropetalus Moldenke
Syngonanthus akurimensis Moldenke
Syngonanthus caulescens Ruhl. = Syngonanthus caulescens (Poir.) Ruhl.
Syngonanthus duidae Moldenke
Syngonanthus elegans (Bong.) Ruhl. = Syngonanthus elegans (Körn.) Ruhl.
Syngonanthus elegans var. rufescens Ruhl. = Syngonanthus elegans (Körn.) Ruhl.
Syngonanthus gracilis Molfino = Eriocaulon argentinum Castell.
Syngonanthus guianensis Moldenke
Syngonanthus lagopodioides (Michx.) Ruhl. = Syngonanthus lagopodioides (Griseb.) Ruhl.
Syngonanthus minutulus (Steud.) Moldenke
Syngonanthus rufo-albus Alv. Silv.
Syngonanthus savannarum Moldenke
Syngonanthus surinamensis Moldenke
Syngonanthus venezuelensis Moldenke
Syngonanthus Wilsoni Moldenke = Syngonanthus Wilsonii Moldenke

The 161 names in the preceding list are supplementary to the 2060 names listed by me on pages 28 to 60 of my booklet entitled "The known geographic distribution of the members of the Eriocaulaceae", published in 1946.
